

AMCA insite™ Webinar | AMCA International | www.amca.org



Lisa Cherney

Education Manager, AMCA International Webinar Moderator

- Joined AMCA in February 2019
- Responsible for development of AMCA's education programs; staff liaison for the Education & Training Subcommittee
- Projects include webinars, online education modules, presentations at trade shows, AMCA Speakers Network and other duties as assigned.





Introductions & Guidelines

- Participation Guidelines:
 - Audience will be muted during the webinar.
 - Questions can be submitted anytime via the GoToWebinar platform and will be addressed at the end of the presentation.
 - Reminder: This webinar is being recorded!
 - To earn PDH credit for today, please stay clicked onto the webinar for the entire hour.
 - A post-webinar evaluation will be emailed to everyone one hour after today's broadcast, and it <u>must</u> be completed to qualify for today's PDH credit.



Q & A

To submit questions:

- From the attendee panel on the side of the screen, select the "Questions" drop down option.
 - Type your question in the box and click "Send".
 - Questions will be answered at the end of the program.

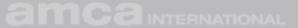
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Attendance for the entire presentation AND a completed evaluation are required for PDH credit to be issued.



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Ed Rizk

Director, AMCA Board of Directors *Presenter*

- Based in Dubai
- Chair of AMCA Sand Louver Committee
- Developed wind driven sand resistance test in ANSI/AMCA Standard 500-L *Laboratory Methods of Testing Louvers for Rating*





Abhishek Chhabra

Market Development Manager, Thomas Bell-Wright, AMCA Partner Lab *Presenter*

- Market Development Manager at AMCA Partner Testing Lab in Dubai
- Over 18 years advocating the need for compliance to standards for improved safety and quality
- Degrees in engineering and finance





AMCA Sand Louvers & Certification

Purpose and Learning Objectives

The purpose of this presentation is to inform Middle East engineers, architects and specifiers about sand louvers and their design, testing and certification.

At the end of this presentation, you will be able to:

- Explain what a sand louver is and its significance for Middle East building design.
- Describe the sand louver testing standards employed.
- Outline the criteria of the AMCA Sand Louver Test Standard.



<u>Agenda</u>

- Sand Louver Form and Function
- Existing Testing Standards
- New AMCA Sand Louver Test Standard
- Local Testing Facility



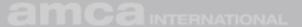
Discussion to Include:

- What is a Sand louver?
- What are the Existing testing standards?
- New AMCA Sand louver Test Standard
- Where can you test your sand louver?



Sand Louver Form and Function

- Architectural (STATIC) ventilation device integrated in the building envelope
- Pre-filtration Media for airborne sand
- Minimum Sand particle size 76um
- Self cleaning / No entrapment



Existing Testing Standards

- ASHRAE Standard Method 52.1-1992 (modified using Crushed Quartz dust medium)
- EN 13181:2001 (10-2001) Ventilation for buildings Terminals. Performance testing of louvers (76-700um)

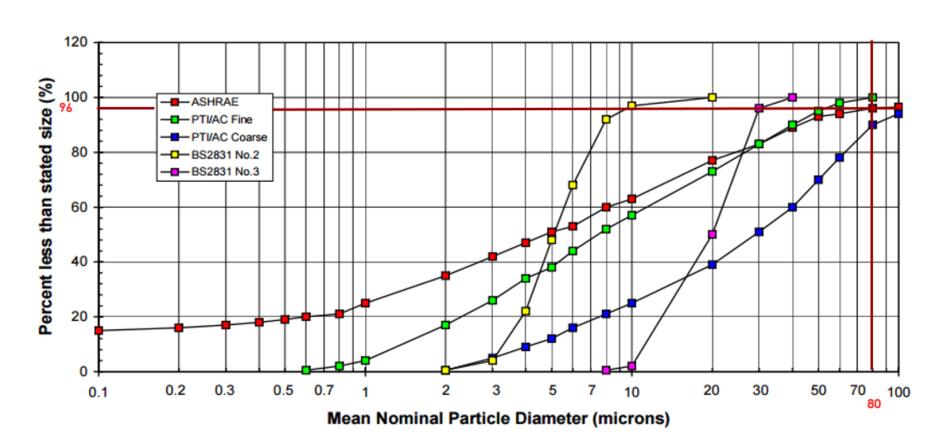


- HEVAC v/s AMCA Sand particle size distribution
- AMCA 511 Publication and Seal



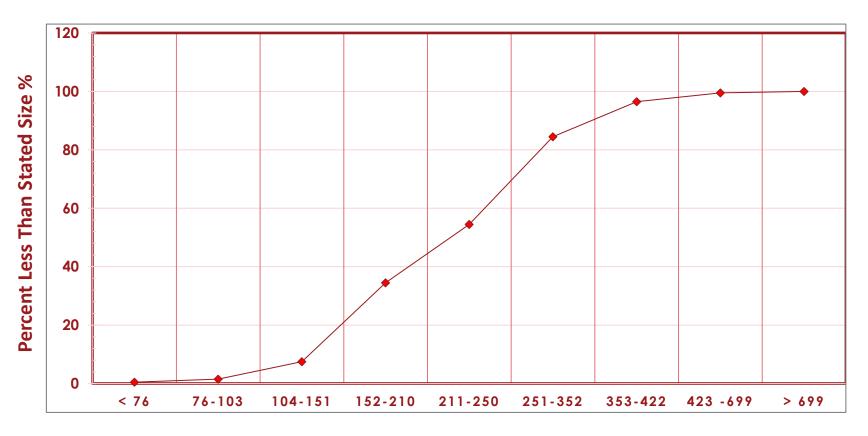
HEVAC Guide to Filtration

Standard Test Dust Particle Size Distributions





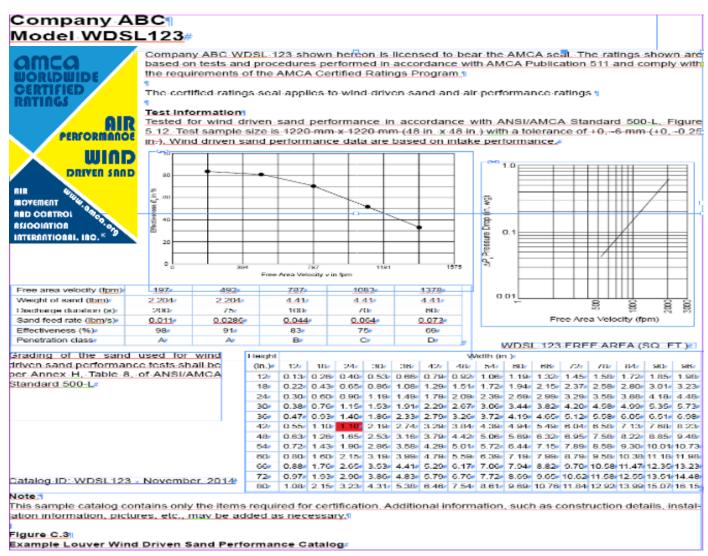
AMCA's Standard Test Sand Particle Size Distribution (ISO 14688-1:2002)



Mean Nominal Particle Diameter (microns)



AMCA 511
Publication and
Seal





Local Testing Facility

- 25 years in Service
- Located in Dubai, UAE
- Providing independent Testing, Inspection and Certification (TIC) services primarily for the building construction sector.

Specializations:

- Façade Consulting
- Curtain Wall Testing
- Fire Compliance







Local Testing Facility

Quality Systems

 ISO 17025, ISO 17065, ISO 17020, AC291

Accreditations

- UKAS UK
- ISO 17025, ISO 17065
- ENAS UAE
- IAS USA
- ISO 17020 Inspection AA-748
- SIA-211 Special Inspections Agency
- AMCA Sand Louver Testing





Responsibility Linkage





99.98 % of world GDP 99.35 % of world population











Assurance of Process of Seller

ERTIFI

OMPA

ISO 9001

ISO 17025

Assurance of process and Product Performance

ISO 9001

ISO 17025

ISO 17065

Assurance of repeatability of performance and supply

Product Registration

ISO 9001

Way forward



Types of Standards

- Codes of practice recommend sound good practice as currently undertaken by competent and conscientious practitioners.
- Methods are also highly prescriptive, setting out an agreed way of measuring, testing or specifying what is reliably repeatable in different circumstances and places
- Guides are published to give less prescriptive advice which reflects the current thinking and practice amongst experts in a particular subject















Assurance of Process of Seller

ISO 9001

ISO 17025

Assurance of process and Product **Performance**

ISO 9001

Reliance on Test reports

Link between test reports and supply? When was the test done?

How many failure runs before a pass and why? Validity of a test report?



Certified







Assurance of Process of Seller

ISO 9001

ISO 17025

Assurance of process and Product Performance

ISO 9001

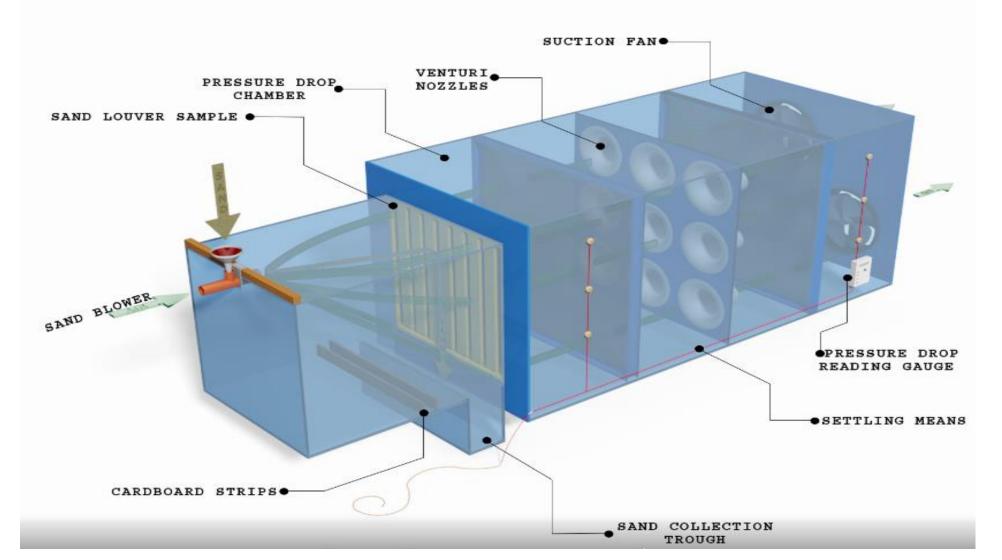
ISO 17025

ISO 17065

Assurance of repeatability of performance and supply

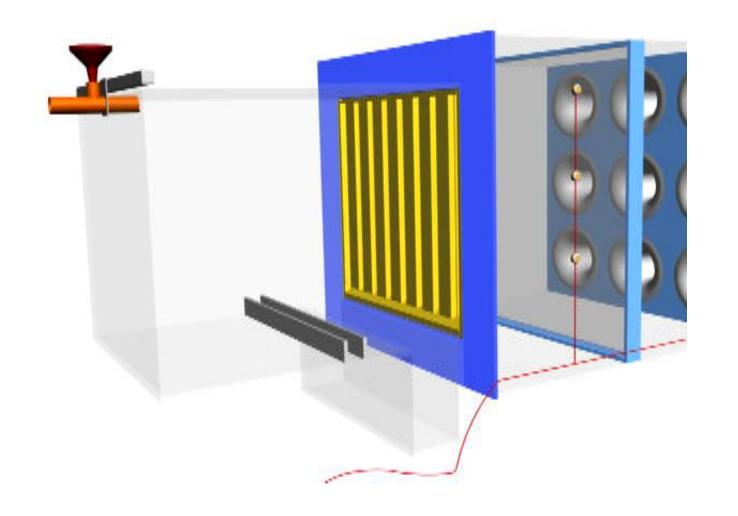
ISO 9001

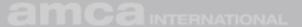
Local Testing Facility – Sand Louver Test Chamber





Local Testing Facility – Test Chamber Simulation





Resources

- AMCA International: www.amca.org
- ANSI/AMCA Standards: www.amca.org/store (Available for purchase)
 - > 500-L-12: Laboratory Methods of Testing Louvers for Rating
- AMCA Publications: www.amca.org/store (Available for purchase)
 - > Publication 511-10 (R2016): Certified Ratings Program Product Rating Manual for Air Control Devices
- AMCA Sand Louver Certification video: www.amca.org/educate/#videos



Thank you for your time!

To receive PDH credit for today's program, you <u>must</u> complete the online evaluation, which will be sent via email 1 hour after this webinar.

PDH credits and participation certificates will be issued electronically within 30 days, once all attendance records are checked and online evaluations are received.

Attendees will receive an email at the address provided on your registration, listing the credit hours awarded and a link to a printable certificate of completion.



Questions?



NEXT PROGRAM

Join us for our next AMCA insite[™] Webinar:

- Wednesday, March 24
- 12:00-1:00 p.m. CT
- TOPIC: Positive Pressure Ventilators (PPV) & AMCA 240 Updates
- Presenters: Kyle Weinmeister, International Sales Director, AMCA Member Company
- >> For additional webinar details go to: www.amca.org/webinar